

APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office MAY 18 1987

Returned to applicant for correction JUN 29 1987

Corrected application filed _____

Map filed _____

The applicant Larry Lewis

3955 Swenson #37, of Las Vegas
Street and No. or P.O. Box No. City or Town

Nevada 89109, hereby make S application for permission to appropriate the public
State and Zip Code No.

waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.)

1. The source of the proposed appropriation is See Attachment A -- Source: Present and future
Name of stream, lake, spring, underground or other source
Sewage and sludge effluent waters of the City of Las Vegas Waste Water Treatment Plant
2. The amount of water applied for is See Attachment B -- 421.86689 cfs second-feet
One second-foot equals 448.83 gals. per min.
(a) If stored in reservoir give number of acre-feet N.A. (only 20 acre feet in canal with present plans)
3. The water to be used for Pollution Abatement/Power Production -- See Attachment C
Irrigation, power, mining, manufacturing, domestic, or other use. Must limit to one use.
4. If use is for:
 - (a) Irrigation, state number of acres to be irrigated See Attachment C
 - (b) Stockwater, state number and kinds of animals to be watered N.A. See Attachment C
 - (c) Other use (describe fully under "No. 12. Remarks") Pollution Abatement/Power Production-- See Attachment C
 - (d) Power:
 - (1) Horsepower developed See Attachment C -- Theoretical 1909.25
See Attachment E -- R 64 E, T 21 S, S 1-18
 - (2) Point of return of water to stream _____
5. The water is to be diverted from its source at the following point See Attachment D
Describe as being within a 40-acre subdivision of public survey, and by course and distance to a section corner. If on unsurveyed land, it should be so stated.
6. Place of use See Attachment E
Describe by legal subdivision. If on unsurveyed land, it should be so stated.
7. Use will begin about Jan. 1 and end about Dec. 31, of each year.
Month and Day Month and Day
8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) The proposed works are hypolon canals, siphon pipes, generators, dispersement pipes, and other future structures and devices that are found appropriate to abate pollution.
State manner in which water is to be diverted, i.e. diversion structure, ditches and flumes, drilled well with pump and motor, etc.
9. Estimated cost of works See Attachemtn F -- (\$4,250,000 of 7,500,000 plus total)

10. Estimated time required to construct works is three to five years.
If well completed, describe works.

11. Estimated time required to complete the application of water to beneficial use is three to five years.

12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.
See Attachment C

s/Larry Lewis
By Larry Lewis
3955 Swenson #37, Las Vegas, NV 89109

Compared bl/bc

Protested _____

OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed _____ cubic feet per second.

Work must be prosecuted with reasonable diligence and be completed on or before _____

Proof of completion of work shall be filed on or before _____

Application of water to beneficial use shall be made on or before _____

Proof of the application of water to beneficial use shall be filed on or before _____

Map in support of proof of beneficial use shall be filed on or before _____

Completion of work filed _____ IN TESTIMONY WHEREOF, I _____

Proof of beneficial use filed _____ State Engineer of Nevada, have hereunto set my hand and the seal of my office, this _____ day of _____,

Cultural map filed _____ A.D. 19 _____

Certificate No. _____ Issued _____

State Engineer

CANCELLED NOV 6 1987 BECAUSE OF FAILURE TO REFILE

CORRECTED APPLICATION WITHIN STATUTORY TIME.

Peter L. Morris
Rubin # 3477, 11-6-87
STATE ENGINEER

ATTACHMENT A
APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA
BY LARRY G. LEWIS, 3955 SVENSON, LAS VEGAS, NEVADA 89109

SOURCE: PRESENT AND FUTURE SEWAGE AND SLUDGE EFFLUENT
WATERS OF THE CITY OF LAS VEGAS WASTE WATER TREATMENT PLANTS

All water flowing, now or in the future, from and/or in the City of Las Vegas Wastewater Treatment Plant and all associated or interconnected facilities.

This includes but is not limited to all waters, dispersed for evaporation, flowing within the chlorination channel and over the chlorination weirs not diverted, not detained, not retained, not beneficially used, or needed for wetlands maintenance by any application or appropriation holders of the Las Vegas Waste Water Treatment Plant waters, and includes any water from future additions, modifications, substitute, and replacement facilities of the forgoing treatment plants.

ATTACHMENT B
APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA
BY LARRY G. LEWIS, 3955 SVENSON, LAS VEGAS, NEVADA 89109

SOURCE: PRESENT AND FUTURE SEWAGE AND SLUDGE EFFLUENT
WATERS OF THE CITY OF LAS VEGAS WASTE WATER TREATMENT PLANTS

THE AMOUNT OF WATER APPLIED FOR IS 421.86689 CFS AS LISTED BELOW:

A) 101.73001 cfs of effluent water with a nonconsumption pollution abatement/power production priority effective at the time the United States Department of Interior, Bureau of Reclamation, requires the water be returned for credit for the Southern Nevada Water Project (Griffin Project) otherwise the effluent water may be used for the alternate methods of pollution abatement and beneficial use.

B) 37.648197 cfs of effluent water with a nonconsumption pollution abatement/power production priority effective at the time the United States Department of Interior, Bureau of Reclamation, requires the water be returned for credit for the Southern Nevada Water Project (Griffin Project), in a Colorado River water shortage situation, otherwise the effluent water may be used for the alternate methods of pollution abatement or beneficial use.

C) 282.48869 cfs of nonpriority use effluent water to be used initially and primarily for the pollution abatement/power production but may be use for other pollution abatement beneficial uses without consideration of return flow credits.



ATTACHMENT C
APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA
BY LARRY G. LEWIS, 3955 SWENSON, LAS VEGAS, NEVADA 89109

SOURCE: PRESENT AND FUTURE SEWAGE AND SLUDGE EFFLUENT
WATERS OF THE CITY OF LAS VEGAS WASTE WATER TREATMENT PLANTS

The water to be used initially and primarily for Pollution Abatement/Power Production in any one and any or all combinations of the following methods, uses, and ways. Also listed are other additional incidental, secondary, and co-uses that may occur.

- 1) Nonconsumptive controlled dispersement of effluent water within the lower basin of Lake Mead 3 to 6 miles north of Las Vegas Bay and elsewhere to mitigate nutrient overload pollution in the Las Vegas Bay, provide nutrients for fishing enhancement where needed, and preserve return flow credits as required and if accepted by Bureau of Reclamation
- 2) Hydroelectric power production with an approximate theoretical 1909.25 horsepower, increasing two to five percent per year.
- 3) Aquaculture and biomass treatment with limited or partial consumption.
- 4) Nonconsumptive and consumptive recreational uses to include but not limited to creating shaded walking trails and wildlife habitat expansion.
- 5) Minor consumption by fishing enhancement thru dispersement, aquiculture, and hatchery systems.
- 6) Nonconsumptive or minimally consumptive low cost copper/silver treatment for human and other harmful pathogenic.
- 7) Nonconsumptive upper subsurface storage.
- 8) Nonconsumptive or partially consumptive solar sterilation of effluent water.
- 9) Nonconsumptive and consumptive solar/thermo/electrical production.
- 10) Consumptive and partially consumptive agriculture uses so long as the water is not requested for or available for return flow credits by the Department of Interior, Bureau of Reclamation.

50942

ATTACHMENT D
APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA
BY LARRY G. LEWIS, 3955 SWENSON, LAS VEGAS, NEVADA 89109

SOURCE: PRESENT AND FUTURE SEWAGE AND SLUDGE EFFLUENT
WATERS OF THE CITY OF LAS VEGAS WASTE WATER TREATMENT PLANTS

Diversion point:

City of Las Vegas Wastewater Treatment Plant-at chlorination weir(s)-the Southwest Quarter (SE1/4) of the Southwest Quarter (SW1/4) of Section 10 Township 21 South, Range 62 East M.D.B. & M., or at a point from which the Southwest (SW) corner of said Section 10 bears South 80 degrees 00' West 1,910.00 feet as supported by the map submitted with application 21014-S-1 and other associated applications and appropriations. Additionally any future point that the effluent water is relocated to, modification of process creates a new discharge point, or discharge point of alternate facilities where the water is transferred to or processed at for treatment.



ATTACHMENT E
APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA
BY LARRY G. LEWIS, 3955 SWENSON, LAS VEGAS, NEVADA 89109

SOURCE: PRESENT AND FUTURE SEWAGE AND SLUDGE EFFLUENT
WATERS OF THE CITY OF LAS VEGAS WASTE WATER TREATMENT PLANTS

Place of use: (For Quantities as Described in Attachment B)

A) (101.73001 cfs) The area of primary nonconsumptive pollution abating/power production use for this effluent water will be Sections 1-18, Township 21S, Range 64E. Part of this nonconsumptive use may be in Sections 12 & 13, T21S, R63E, Sec. 13, T21, R63½E, Sec. 13-24 & 29-31, T21S, R65E. As the Bureau of Reclamation requires return flow the usage will become entirely in these areas. Prior to the Bureau of Reclamation's call for return flow some consumptive use may occur throughout T20S & T21S and R62E, R63E, R64E, and R65E.

B) (37.648197 cfs) The uses and locations for use of this effluent water is the same as A) above with more emphasis on consumptive that can be discontinued about the year 2030 when or if it is needed to meet return flow needs.

C) (282.48869 cfs) This nonpriority effluent will be used as in and at the locations described in A above with more emphasis on financially affordable consumptive recreational and other beneficial uses while still meeting pollution abatement needs.

ATTACHMENT F
APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA
BY LARRY G. LEWIS, 3955 SWENSON, LAS VEGAS, NEVADA 89109

SOURCE: PRESENT AND FUTURE SEWAGE AND SLUDGE EFFLUENT
WATERS OF THE CITY OF LAS VEGAS WASTE WATER TREATMENT PLANTS

Estimated cost of works: (For Quantities as Described in Attachment B)

A) (101.73001 cfs) The current estimated cost of the system to abate the pollution of this effluent water is currently roughly estimated at \$7,500,000 of which approximately \$4,250,000 can be contributed to the City of Las Vegas flows.

B) (37.648197 cfs) This additional water could be handled by an additional \$900,000 of work because the original project is anticipated to be oversized.

C) (282.48869 cfs) The initial phase of usage of this water will be a minimum of \$500,000 additional expenditure of the projected expenditure of A above and will eventually exceed \$5,000,000.

